

NFPA 72 (2002) & Elevators

Elevator Recall for Fire Fighters' Service

6.15.3.1	System type smoke detectors or other automatic fire detection as permitted by 6.15.3.7 located in elevator lobbies, elevator hoistways and elevator machine rooms including machinery space, control room and control space used to initiate fire-fighter's service recall shall be connected to the building fire alarm system.
6.15.3.2	In facilities without a building fire alarm system, the smoke detectors or other automatic fire detection as permitted by 6.15.3.7 shall be connected to a dedicated fire alarm system control unit and shall be designated "elevator recall control and supervisory panel" permanently identified on the control unit and the record drawings.
6.15.3.3	Unless otherwise required by the authority having jurisdiction, only elevator lobby, elevator hoistway, and elevator machine room smoke detectors or other automatic fire detection as permitted by 6.15.3.7 shall be used to recall elevators for fire-fighter's service.
6.15.3.4	Each elevator lobby, elevator hoistway, and elevator machine room smoke detectors or other automatic fire detection as permitted by 6.15.3.7 shall be capable of initiating recall when all other devices on the same initiating device circuit have been manually or automatically placed in the alarm condition.
6.15.3.5	A lobby smoke detector (or other automatic fire detection as permitted by 6.15.3.7) shall be located on the ceiling within 21' of the centerline of each elevator door within the elevator bank under control of the detector.
6.15.3.6	Smoke detectors shall not be located in unsprinklered elevator hoistways.
6.15.3.7	If ambient conditions prohibit installation of automatic smoke detection, other automatic fire detection shall be permitted. Note: Such ambient conditions may include where steam, dust or low temperatures are commonly present. Heat detectors used in place of smoke detectors must be lower temperature than those used for shunt trip disconnecting where sprinklers are present.
6.15.3.8	When actuated each elevator lobby, elevator hoistway, and elevator machine room smoke detectors or other automatic fire detection as permitted by 6.15.3.7 shall initiate an alarm condition on the building fire alarm system and shall visibly indicate, at the control unit and remote required annunciators, the alarm initiation circuit or zone from which the alarm originated
6.15.3.9	Actuation from elevator hoistway and/or elevator machine room smoke detectors shall cause separate and distinct visible annunciation at the control unit and required annunciators to alert the fire fighters and other emergency personnel the elevators are no longer safe to use. Activation of these detectors shall not be required to actuate the notification appliances where the alarm signal is indicated at a constantly attended location.
6.15.3.10	For each group of elevators within a building, a minimum of three separate elevator control circuits shall be terminated at the designated elevator controller within the group's elevator machine room(s). The operation of the elevators shall be in accordance with A17.1, 2.27.
6.15.3.10(1)	The detector(s) in the designated elevator recall lobby (at a front or rear entrance) or a machine room at the designated level shall actuate the first elevator control circuit.
6.15.3.10(2)	The detector(s) in the remaining elevator lobbies shall actuate the second elevator control circuit.

6.15.3.10(3)	The detector(s) in the elevator hoistway and/or elevator machine room(s) shall actuate the third elevator control circuit. Note: they shall also cause the fire hat in the elevator car to flash, indicating that the elevator(s) is(are) no longer safe to use per A17.1, 2.27.4.2.
6.15.2.2	A listed relay or other listed appliance connected to the fire alarm system used to initiate control of protected premises fire safety functions shall be located within three feet of the controlled circuit or appliance.
4.4.5	In areas that are not continuously occupied, automatic smoke detection shall be provided at the location of each fire alarm control unit to provide notification of fire at that location.

Phase I Emergency Recall Operation (typical)

